

Use Attainability Analysis

for

WBID 3183 Trib to White Oak Creek

Submitted by

Missouri Department of Natural Resources Staff

To

Missouri Department of Natural Resources  
Water Protection Program

**Field Data Sheets for Recreational Use Stream Surveys**

**Data Sheet A - Water Body Identification**

RECEIVED  
2005 JUL 14 PM 3:05

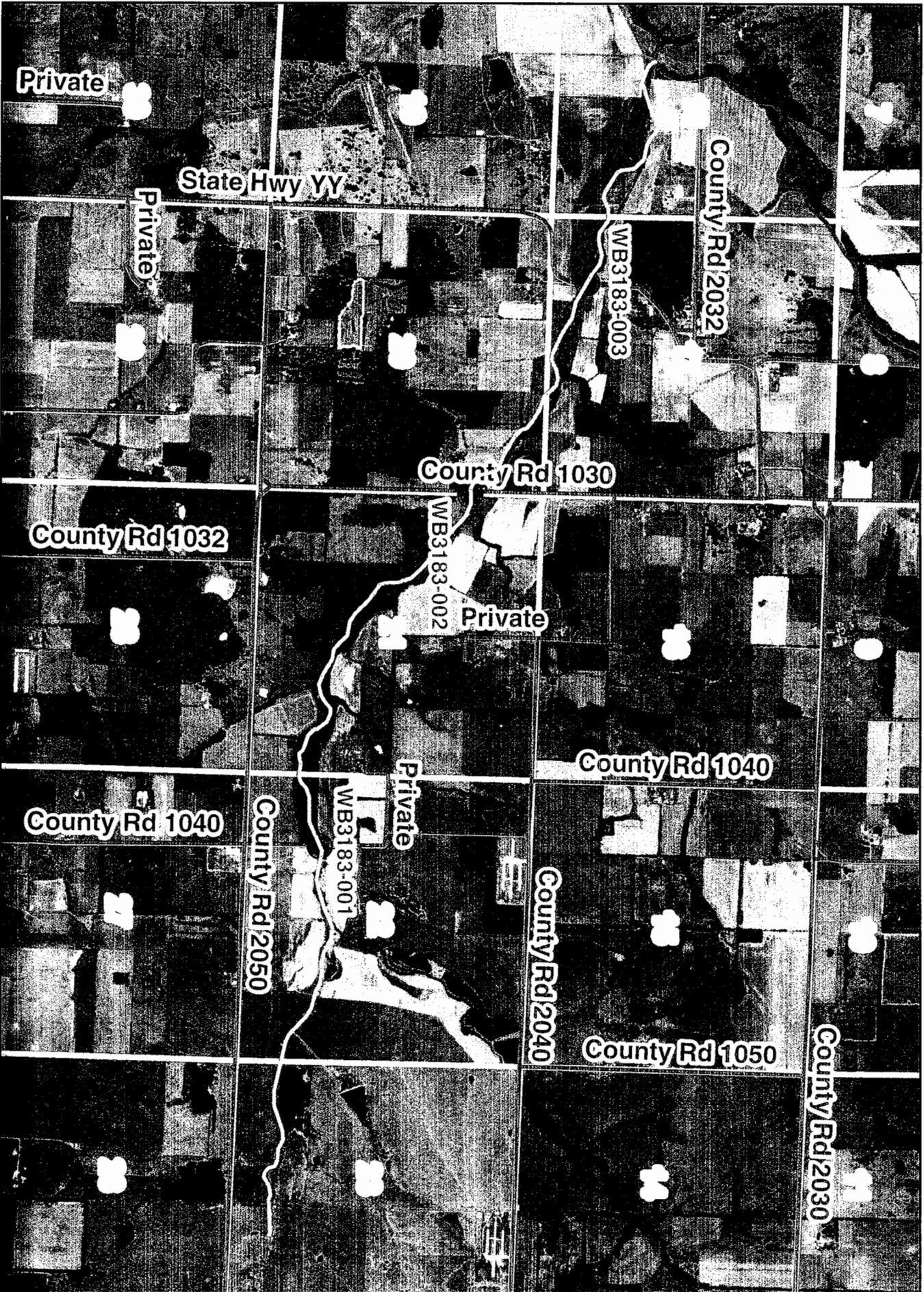
WATER PROTECTION PROGRAM

|  |  |
|--|--|
| Water Body Name (from USGS 7.5' quad): | Trib. to White Oak Creek                   |
| 8-digit HUC:                           | 11070207                                   |
| Missouri WBID #:                       | 3183                                       |
| County:                                | Lawrence                                   |
| Upstream Legal Description:            | Sec. 22, T.29N., R. 28W.                   |
| Downstream Legal Description:          | Sec. 17, T.29N., R. 28W.                   |
| Upstream Coordinates:                  | E: 413183, N: 4118625                      |
| Downstream Coordinates:                | E: 410014, N: 4120134                      |
| Discharger Facility Name(s):           |  |
| Discharger Permit Number(s):           |  |
| Number of Sites Evaluated:             | 3  |
| Name of Surveyor and Telephone Number: | Gene Campbell & Jeff Woodward 417-888-4028 |
| Organization:                          | MDNR                                       |
| Position:                              | Soil Scientist                             |

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Gene Campbell Date: 7/6/05

Trib. to White Oak Creek (WB3183)  
Lawrence County, Missouri



Trib White Oak (1)

**Field Data Sheets for Recreational Use Stream Surveys**

**Data Sheet B - Site Characterization**  
(A separate data sheet must be completed for each site)

|   |  |
|---|--|
| Missouri WBID #: <u>3183</u>  | Site Location Description:                               |
| Site GPS Coordinates: <u>E: 413183, N: 4118625</u>                              | <u>County Rd 1040</u>                                    |
| Date & Time: <u>6/28/05 1:35</u>  | Facility Name:   |
| Personnel: <u>Campbell &amp; Woodward</u>                                       | Permit Number:   |
| Current Weather Conditions: <u>Sunny, Hot &amp; Dry</u>                         | Weather Conditions for Past 7 days: <u>Hot &amp; Dry</u> |
| Photo Ids: Upstream: <u>WBID 3183-01</u> Downstream: <u>WBID 3183-01</u> Other: |  |

**Uses Observed\*:**

|                                       |                                      |                                       |   |                                       |
|---------------------------------------|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming     | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing                       | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking    | <input type="checkbox"/> Boating      | <input type="checkbox"/> Wading                       | <input type="checkbox"/> Rafting      |
| <input type="checkbox"/> Hunting      | <input type="checkbox"/> Trapping    | <input type="checkbox"/> Fishing      | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other:       |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

**Surrounding Conditions\*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

|  |   |   |  |   |
|--|---|---|--|---|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds      | <input type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas   | <input type="checkbox"/> Campgrounds    |
| <input type="checkbox"/> Boating accesses  | <input type="checkbox"/> State parks      | <input type="checkbox"/> National forests       | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign  | <input checked="" type="checkbox"/> Fence | <input type="checkbox"/> Steep slopes           | <input type="checkbox"/> Other:        |   |

**Evidence of Human Use\*:**

|   |  |  |   |  |
|---|--|--|---|--|
| <input type="checkbox"/> Roads                        | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings                  | <input type="checkbox"/> Camping Sites     | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge    | <input type="checkbox"/> Fishing Tackle  |
| <input checked="" type="checkbox"/> Other: <u>N/A</u> |  |  |   |  |

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

# Field Data Sheets for Recreational Use Stream Surveys

## Data Sheet B - Site Characterization

Page Two - WBID # 3183:001

### Stream Morphology:

#### Upstream View Physical Dimensions:

|  |  |                                   |                              |                  |
|--|--|-----------------------------------|------------------------------|------------------|
| <input type="checkbox"/> Riffle          | Width (ft):  | Length (ft):                      | Avg. Depth (ft):             | Max. Depth (ft): |
| <input type="checkbox"/> Run             | Width (ft):  | Length (ft):                      | Avg. Depth (ft):             | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Pool | Width (ft): <u>35</u>  | Length (ft): <u>20</u>            | Avg. Depth (ft): <u>3 ft</u> | Max. Depth (ft): |
| <input type="checkbox"/> Flow            | Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                              |                  |

#### Downstream View Physical Dimensions:

|   |  |                                   |                                  |                  |
|---|--|-----------------------------------|----------------------------------|------------------|
| <input type="checkbox"/> Riffle         | Width (ft):  | Length (ft):                      | Avg. Depth (ft):                 | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Run | Width (ft): <u>15</u>  | Length (ft): <u>30</u>            | Avg. Depth (ft): <u>1 1/2 ft</u> | Max. Depth (ft): |
| <input type="checkbox"/> Pool           | Width (ft):  | Length (ft):                      | Avg. Depth (ft):                 | Max. Depth (ft): |
| <input type="checkbox"/> Flow           | Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                                  |                  |

#### Substrate\*: (These values should add up to 100%.)

|                    |                    |        |                  |            |           |
|--------------------|--------------------|--------|------------------|------------|-----------|
| <u>10</u> % Cobble | <u>50</u> % Gravel | % Sand | <u>40</u> % Silt | % Mud/Clay | % Bedrock |
|--------------------|--------------------|--------|------------------|------------|-----------|

#### Aquatic Vegetation\*: (note amount of vegetation or algal growth at the assessment site)

|  |
|--|
|  |
|--|

#### Water Characteristics\*: (Mark all that apply.)

|                  |                                 |                                 |  |  |                                 |
|------------------|---------------------------------|---------------------------------|--|--|---------------------------------|
| Odor:            | <input type="checkbox"/> Sewage | <input type="checkbox"/> Musky  | <input type="checkbox"/> Chemical                  | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |
| Color:           | <input type="checkbox"/> Clear  | <input type="checkbox"/> Green  | <input checked="" type="checkbox"/> Gray           | <input type="checkbox"/> Milky           | <input type="checkbox"/> Other: |
| Bottom Deposit:  | <input type="checkbox"/> Sludge | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Fine sediments | <input type="checkbox"/> None            | <input type="checkbox"/> Other: |
| Surface Deposit: | <input type="checkbox"/> Oil    | <input type="checkbox"/> Scum   | <input checked="" type="checkbox"/> Foam           | <input type="checkbox"/> None            | <input type="checkbox"/> Other: |

#### Comments: Please attach additional comments (including information from interviews) to this form.

Turtle, Fish

\*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Aime Campbell Date: 7/6/05

Organization: MDNR Position: Soil Scientist



3183\_001 DS



3183\_001 US



Trib White Oak (2)  
**Field Data Sheets for Recreational Use Stream Surveys**

**Data Sheet B - Site Characterization**

(A separate data sheet must be completed for each site)

|  |   |
|--|---|
| Missouri WBID #: 3183-002                    | Site Location Description:                    |
| Site GPS Coordinates: E: 411206, N: 419475   | County Rd 1030                                |
| Date & Time: 6/28/05 1:50                    | Facility Name:                                |
| Personnel: Campbell & Woodward               | Permit Number:                                |
| Current Weather Conditions: Sunny, Hot & Dry | Weather Conditions for Past 7 days: Hot & Dry |
| Photo Ids: Upstream: WBID3183-02             | Downstream: WBD3183-02 Other:                 |

**Uses Observed\*:**

|                                       |                                      |                                       |   |                                       |
|---------------------------------------|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming     | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing                       | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking    | <input type="checkbox"/> Boating      | <input type="checkbox"/> Wading                       | <input type="checkbox"/> Rafting      |
| <input type="checkbox"/> Hunting      | <input type="checkbox"/> Trapping    | <input type="checkbox"/> Fishing      | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other:       |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

**Surrounding Conditions\*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

|  |                                      |   |  |   |
|--|--------------------------------------|---|--|---|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas   | <input type="checkbox"/> Campgrounds    |
| <input type="checkbox"/> Boating accesses  | <input type="checkbox"/> State parks | <input type="checkbox"/> National forests       | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign  | <input type="checkbox"/> Fence       | <input type="checkbox"/> Steep slopes           | <input type="checkbox"/> Other:        |   |

**Evidence of Human Use\*:**

|  |  |  |   |  |
|--|--|--|---|--|
| <input type="checkbox"/> Roads                 | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings           | <input type="checkbox"/> Camping Sites     | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge    | <input type="checkbox"/> Fishing Tackle  |
| <input checked="" type="checkbox"/> Other: N/A |  |  |   |  |

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

# Field Data Sheets for Recreational Use Stream Surveys

## Data Sheet B - Site Characterization

Page Two - WBID # 3183:002

### Stream Morphology:

#### Upstream View Physical Dimensions:

|  |   |                                   |                               |                  |
|--|---|-----------------------------------|-------------------------------|------------------|
| <input type="checkbox"/> Riffle          | Width (ft):   | Length (ft):                      | Avg. Depth (ft):              | Max. Depth (ft): |
| <input type="checkbox"/> Run             | Width (ft):   | Length (ft):                      | Avg. Depth (ft):              | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Pool | Width (ft): <u>30</u>   | Length (ft): <u>150</u>           | Avg. Depth (ft): <u>4 ft?</u> | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Flow | Present? <input type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                               |                  |

#### Downstream View Physical Dimensions:

|  |  |                                   |                               |                  |
|--|--|-----------------------------------|-------------------------------|------------------|
| <input type="checkbox"/> Riffle          | Width (ft):  | Length (ft):                      | Avg. Depth (ft):              | Max. Depth (ft): |
| <input type="checkbox"/> Run             | Width (ft):  | Length (ft):                      | Avg. Depth (ft):              | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Pool | Width (ft): <u>36</u>  | Length (ft): <u>60</u>            | Avg. Depth (ft): <u>4 ft?</u> | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Flow | Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                               |                  |

#### Substrate\*: (These values should add up to 100%.)

|                    |                    |        |        |            |           |
|--------------------|--------------------|--------|--------|------------|-----------|
| <u>20</u> % Cobble | <u>80</u> % Gravel | % Sand | % Silt | % Mud/Clay | % Bedrock |
|--------------------|--------------------|--------|--------|------------|-----------|

#### Aquatic Vegetation\*: (note amount of vegetation or algal growth at the assessment site)

|  |
|--|
|  |
|--|

#### Water Characteristics\*: (Mark all that apply.)

|                  |                                 |   |   |  |                                 |
|------------------|---------------------------------|---|---|--|---------------------------------|
| Odor:            | <input type="checkbox"/> Sewage | <input type="checkbox"/> Musky            | <input type="checkbox"/> Chemical       | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |
| Color:           | <input type="checkbox"/> Clear  | <input checked="" type="checkbox"/> Green | <input type="checkbox"/> Gray           | <input type="checkbox"/> Milky           | <input type="checkbox"/> Other: |
| Bottom Deposit:  | <input type="checkbox"/> Sludge | <input type="checkbox"/> Solids           | <input type="checkbox"/> Fine sediments | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |
| Surface Deposit: | <input type="checkbox"/> Oil    | <input type="checkbox"/> Scum             | <input type="checkbox"/> Foam           | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |

#### Comments: Please attach additional comments (including information from interviews) to this form.

Fish, Turtle

\*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Aime Campbell Date: 7/6/05

Organization: MDNR Position: Soil Scientist



3183\_002 DS



3183\_002 US



Trib White Oak (3)  
**Field Data Sheets for Recreational Use Stream Surveys**

**Data Sheet B - Site Characterization**

(A separate data sheet must be completed for each site)

|   |  |
|---|--|
| Missouri WBID #: <u>3183-003</u>  | Site Location Description: <u>Hwy YY</u>                 |
| Site GPS Coordinates: <u>E: 410014, N: 4120134</u>                                  | Facility Name: <u></u>                                   |
| Date & Time: <u>6/28/05 2:00</u>  | Permit Number: <u></u>                                   |
| Personnel: <u>Campbell &amp; Woodward</u>   | Weather Conditions for Past 7 days: <u>Hot &amp; Dry</u> |
| Current Weather Conditions: <u>Sunny, Hot &amp; Dry</u>                             |  |
| Photo Ids: Upstream: <u>WBH3183-03</u> Downstream: <u>WBD3183-03</u> Other: <u></u> |  |

**Uses Observed\*:**

|                                       |                                      |                                       |   |   |
|---------------------------------------|--------------------------------------|---------------------------------------|---|---|
| <input type="checkbox"/> Swimming     | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing                       | <input type="checkbox"/> Water skiing   |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking    | <input type="checkbox"/> Boating      | <input type="checkbox"/> Wading                       | <input type="checkbox"/> Rafting        |
| <input type="checkbox"/> Hunting      | <input type="checkbox"/> Trapping    | <input type="checkbox"/> Fishing      | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other: <u></u> |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)

**Surrounding Conditions\*:** (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

|  |   |  |   |   |
|--|---|--|---|---|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds      | <input type="checkbox"/> MDC conservation lands  | <input type="checkbox"/> Urban areas    | <input type="checkbox"/> Campgrounds    |
| <input type="checkbox"/> Boating accesses  | <input type="checkbox"/> State parks      | <input type="checkbox"/> National forests        | <input type="checkbox"/> Nature trails  | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign  | <input checked="" type="checkbox"/> Fence | <input checked="" type="checkbox"/> Steep slopes | <input type="checkbox"/> Other: <u></u> |   |

**Evidence of Human Use\*:**

|   |  |  |   |  |
|---|--|--|---|--|
| <input type="checkbox"/> Roads                        | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings                  | <input type="checkbox"/> Camping Sites     | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge    | <input type="checkbox"/> Fishing Tackle  |
| <input checked="" type="checkbox"/> Other: <u>N/A</u> |  |  |   |  |

**Site Locations Map(s):** Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

\*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

# Field Data Sheets for Recreational Use Stream Surveys

## Data Sheet B - Site Characterization

Page Two - WBID # 3183:003

### Stream Morphology:

#### Upstream View Physical Dimensions:

|  |  |                                   |                               |                  |
|--|--|-----------------------------------|-------------------------------|------------------|
| <input type="checkbox"/> Riffle          | Width (ft):  | Length (ft):                      | Avg. Depth (ft):              | Max. Depth (ft): |
| <input type="checkbox"/> Run             | Width (ft):  | Length (ft):                      | Avg. Depth (ft):              | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Pool | Width (ft): <u>20</u>  | Length (ft): <u>100</u>           | Avg. Depth (ft): <u>4 ft?</u> | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Flow | Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                               |                  |

#### Downstream View Physical Dimensions:

|  |  |                                   |                               |                  |
|--|--|-----------------------------------|-------------------------------|------------------|
| <input type="checkbox"/> Riffle          | Width (ft):  | Length (ft):                      | Avg. Depth (ft):              | Max. Depth (ft): |
| <input type="checkbox"/> Run             | Width (ft):  | Length (ft):                      | Avg. Depth (ft):              | Max. Depth (ft): |
| <input type="checkbox"/> Pool            | Width (ft): <u>20</u>  | Length (ft): <u>50</u>            | Avg. Depth (ft): <u>3 ft?</u> | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Flow | Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft <sup>3</sup> /sec): |                               |                  |

### Substrate\*: (These values should add up to 100%.)

|                    |                    |        |        |            |           |
|--------------------|--------------------|--------|--------|------------|-----------|
| <u>20</u> % Cobble | <u>80</u> % Gravel | % Sand | % Silt | % Mud/Clay | % Bedrock |
|--------------------|--------------------|--------|--------|------------|-----------|

### Aquatic Vegetation\*: (note amount of vegetation or algal growth at the assessment site)

|  |
|--|
|  |
|--|

### Water Characteristics\*: (Mark all that apply.)

|                  |                                 |   |   |  |                                 |
|------------------|---------------------------------|---|---|--|---------------------------------|
| Odor:            | <input type="checkbox"/> Sewage | <input type="checkbox"/> Musky            | <input type="checkbox"/> Chemical       | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |
| Color:           | <input type="checkbox"/> Clear  | <input checked="" type="checkbox"/> Green | <input type="checkbox"/> Gray           | <input type="checkbox"/> Milky           | <input type="checkbox"/> Other: |
| Bottom Deposit:  | <input type="checkbox"/> Sludge | <input type="checkbox"/> Solids           | <input type="checkbox"/> Fine sediments | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |
| Surface Deposit: | <input type="checkbox"/> Oil    | <input type="checkbox"/> Scum             | <input type="checkbox"/> Foam           | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |

Comments: Please attach additional comments (including information from interviews) to this form.

Fish

\*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Aime Campbell Date: 7/6/05  
 Organization: MDNR Position: Soil Scientist



3183 003 DS



3183\_003 US

